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DRAFT [REDACTED] /bt/ 18 Aug 67

MEMORANDUM FOR: IDEALIST Configuration Evaluation Board/OSA

SUBJECT: System 21 General Flight Test Plan

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1. System 21

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Associated ground

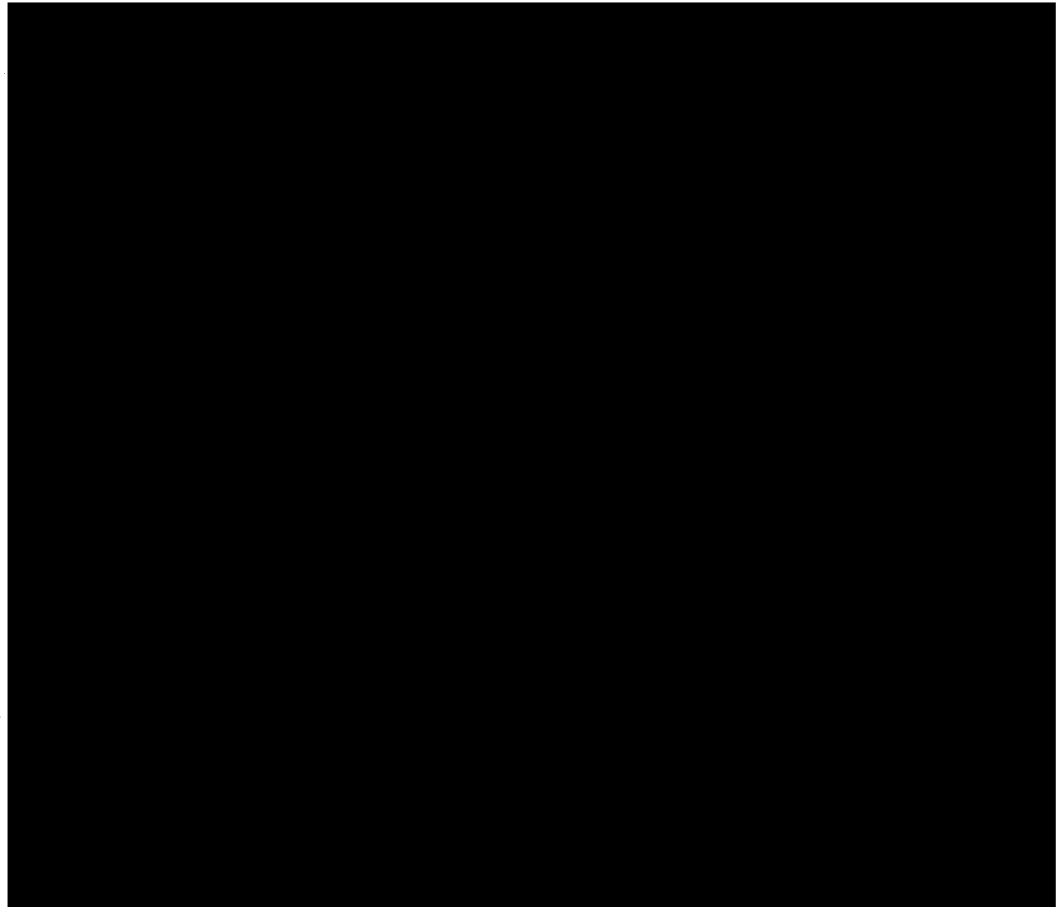
equipment includes a ground checkout unit for System 21 and a playback machine for readout of the 28 track tape.

2. Flight test objectives are to test the equipment operation in the real environment, to concurrently test the data processing equipment, and finally to obtain an indication of the ability of the system to receive [REDACTED] out to a useful range. The System 21 receiver package will have receivers tuned to the following frequencies:

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A general pickup flight in the vicinity of the first group of emitters listed above could be used to indicate equipment operation in the IDEALIST environment. A second flight to receive the VOR stations of the second group above could be used to indicate coverage capability of System 21. In both flights the equipment should have a one hour cold soak, and the pilot should mark his position at the time of equipment turn on. In the second flight it would be desirable to fly relatively near at least one of the emitters and proceed away from it to a range of 300 miles along

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a path which has a minimum of mountaineous screening between the aircraft and the emitter. Also, it will probably be helpful ~~x~~ on this flight to avoid concentrations of FM stations, such as exist along the ~~near~~ coast.

3. The number of flights required as above is two. However, if a flight plan can be used which contains the above stated conditions relative to the VOR stations as well as the others, a single flight could be sufficient. In either case it is requested that a backup flight be scheduled in case of equipment failure. Also, it is requested that at least 24 hours be allowed between flights for analysis of tapes and adjustment of equipment.

4. It is requested that the flight test be scheduled as early as possible following delivery of the article.

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